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## INDEX TO AMERICAN BOTANICAL LITERATURE

1918-1919

The aim of this Index is to include all current botanical literature written by Americans, published in America, or based upon American material; the word America being used in the broadest sense.

Reviews, and papers that relate exclusively to forestry, agriculture, horticulture, manufactured products of vegetable origin, or laboratory methods are not included, and no attempt is made to index the literature of bacteriology. An occasional exception is made in favor of some paper appearing in an American periodical which is devoted wholly to botany. Reprints are not mentioned unless they differ from the original in some important particular. If users of the Index will call the attention of the editor to errors or omissions, their kindness will be appreciated.

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**Atanasoff, D.** A novel method of ascospore discharge. *Mycologia* 11: 125-128. f. 1-3. 7 Je 1919.

**Bacon, A. E.** Along highway and cross-country in Oklahoma. *Vermont Bot. & Bird Club Bull.* 4 & 5: 8-12. Ap 1919.

**Bailey, I. W.** Depressed segments of oak stems. *Bot. Gaz.* 67: 438-441. f. 1-4. 19 My 1919.

**Beach, W. S.** The *Fusarium* wilt of China aster. *Michigan Acad. Sci. Ann. Rep.* 20: 281-308. pl. 18-22 + f. 28. 22 N. 1918.

**Bennett, C. W.** Soft rot of pepper caused by *Bacillus carotovorus*. *Michigan Acad. Sci. Ann. Rep.* 20: 351, 352. pl. 38-40. 22 N 1918.

**Bertoni, M. S.** Contribuciones preliminares al estudio sistematico, biologico y economico de las plantas del Paraguay. *An. Cien. Paraguayos* 2: 135-142. Ja 1918.  
Includes *Cedrela tubiflora* and *Chorisia Josephinae*, spp. nov.

**Bertoni, M. S.** Essai d'une monographie du genre *Ananas*. *An. Cien. Paraguayos* 2: 250-322. Ja 1918.

**Bertoni, M. S.** Graminaceas de las regiones forestales litorales del Alto Parana (Paraguay, Brasileña y Argentina). *An. Cien. Paraguayos* 2: 143-166. Ja 1918.

- Bertoni, M. S.** La *Stevia Rebaudiana* Bertoni. La Estevina y la Rebaudina nuevas substancias edulcorantes. An. Cien. Paraguayos 2: 129-134. Ja 1918.
- Bessey, E. A.** Rose M. Taylor. Phytopathology 9: 212, 213. 23 My 1919.
- Bethel, E.** *Puccinia subnitens* and its aecial hosts—II. Phytopathology 9: 193-201. 23 My 1919.
- Bonar, L.** The rusts of the Douglas Lake region. Michigan Acad. Sci. Ann. Rep. 20: 277, 278. 22 N 1918.
- Bowles, C. W.** Systematic botany. Am. Bot. 25: 57-63. My 1919.
- Brandes, E. W.** Distribution of *Fusarium cubense*, E. F. S., the cause of banana wilt. Michigan Acad. Sci. Ann. Rep. 20: 271-275. 22 N 1918.
- Brotherton, W. E.** Note on inheritance in *Phaseolus*. Michigan Acad. Sci. Ann. Rep. 20: 152. 22 N 1918.
- Brown, W. H.** The theory of limiting factors. Philip. Jour. Sci. 13: (Bot.) 345-351. f. 1. N 1918.
- Brown, W. H., & Trelease, S. F.** Alternate shrinkage and elongation of growing stems of *Cestrum nocturnum*. Philip. Jour. Sci. 13: (Bot.) 353-360. N 1918.
- Campbell, D. H.** The derivation of the flora of Hawaii. 1-34. Stanford University. 1919.  
Leland Stanford Jr. Univ. Publ. Univ. Series.
- Clark, F. R.** Bud formation of plant hypocotyls. Michigan Acad. Sci. Ann. Rep. 20: 146. 22 N 1918.
- Claassen, E.** Mosses of several Ohio counties. Ohio Jour. Sci. 19: 362-366. Ap 1919.
- Clute, W. N.** Official drugs of the United States. Am. Bot. 25: 47-50. My 1919.
- Cobb, F., & Bartlett, H. H.** A case of Mendelian segregation in *Oenothera pratincola*. Michigan Acad. Sci. Ann. Rep. 20: 151. 22 N 1918.
- Coons, G. H.** Michigan plant disease survey for 1917. Michigan Acad. Sci. Ann. Rep. 20: 425-450. pl. 41-50. 22 N 1918.
- Coons, G. H.** The soft rot of hyacinth. Michigan Acad. Sci. Ann. Rep. 20: 353, 354. 22 N 1918.

- Darlington, H. T.** Weed immigration into Michigan. Michigan Acad. Sci. Ann. Rep. **20**: 261-267. 22 N 1918.
- Dodge, C. K.** Contributions to the botany of Michigan—II. Univ. Mich. Mus. Zool. Misc. Publ. **5**: 1-44. 13 J1 1918.
- Evans, A. T.** Embryo sac and embryo of *Pentstemon secundiflorus*. Bot. Gaz. **67**: 427-437. *pl.* 12. 19 My 1919.
- Evans, A. W.** A taxonomic study of *Dumortiera*. Bull. Torrey Club **46**: 167-182. 23 My 1919.
- Farwell, O. A.** Necessary changes in botanical nomenclature. Rhodora **21**: 101-103. 21 My 1919.
- Farwell, O. A.** Notes on the Michigan flora. Michigan Acad. Sci. Ann. Rep. **20**: 161-195. 22 N 1918.  
Many new varieties and combinations are included.
- Farwell, O. A.** The *Trillium grandiflorum* group. Michigan Acad. Sci. Ann. Rep. **20**: 155-159. 22 N 1918.
- Farwell, O. A.** The yellow flowered cypripediums. Michigan Acad. Sci. Ann. Rep. **20**: 197, 198. 22 N 1918.
- Fernald, M. L.** *Bidens connata* Muhl., var. *gracilipes* n. var. Rhodora **21**: 103, 104. 21 My 1919.
- Fernald, M. L.** *Rubus idaeus* and some of its variations in North America. Rhodora **21**: 89-98. 21 My 1919.
- Flynn, N. F.** Plants new to Vermont collected at Woodstock. Vermont Bot. & Bird Club Bull. **4 & 5**: 7. Ap 1919.
- Flynn, N. F.** A word concerning xanthiums. Vermont Bot. & Bird Club Bull. **4 & 5**: 20. Ap 1919.
- Fraser, W. P.** Cultures of heteroecious rusts in 1918. Mycologia **11**: 129-133. 7 Je 1919.
- Free, M.** Effect of low temperatures on greenhouse plants. Brooklyn Bot. Gard. Rec. **8**: 14-17. Ja 1919.
- Galloway, B. T.** Giant crown galls from the Florida everglades. Phytopathology **9**: 207, 208. *pl.* 10. 23 My 1919.
- Gardner, M. W.** The mode of dissemination of fungous and bacterial diseases of plants. Michigan Acad. Sci. Ann. Rep. **20**: 357-423. 22 N 1918.
- Gates, F. C.** A comparison of the trees found in cemeteries of Hancock County, Illinois, with the native trees of the same region. Michigan Acad. Sci. Ann. Rep. **20**: 245, 246. 22 N 1918.

- Giddings, N. J., & Berg, A.** A comparison of the late blights of tomato and potato. *Phytopathology* **9**: 209, 210. *pl.* 11. 23 My 1919.
- Gleason, H. A.** Notes of the introduced flora of the Douglas Lake region. *Michigan Acad. Sci. Ann. Rep.* **20**: 153. 22 N 1918.  
(Abstract.)
- Gleason, H. A.** *Scirpus validus* for demonstrating procambium. *Michigan Acad. Sci. Ann. Rep.* **20**: 153. 22 N 1918.  
(Abstract.)
- Graves, A. H.** Some diseases of trees in Greater New York. *Mycologia* **11**: 111-124. *pl.* 10. My 1919.
- Griggs, R. F.** The beginnings of revegetation in Katmai Valley. *Ohio Jour. Sci.* **19**: 318-342. Ap 1919. [Illust.]
- Güssow, H. T.** The Canadian tuckahoe. *Mycologia* **11**: 104-110. *pl.* 7-9. 7 Je 1919.  
*Grifola Tuckahoe* sp. nov. is described.
- Haas, A. R. C.** Effect of anesthetics upon respiration. *Bot. Gaz.* **67**: 377-404. *f.* 1-4. 19 My 1919.
- Harvey, L. H.** A coniferous sand dune in Cape Breton Island. *Bot. Gaz.* **67**: 417-426. *f.* 1-8. 19 My 1919.
- Harvey, R. B.** Importance of epidermal coverings. *Bot. Gaz.* **67**: 441-444. *f.* 1, 2. 19 My 1919.
- Hibbard, R. P.** Salt ratios in soil cultures. *Michigan Acad. Sci. Ann. Rep.* **20**: 147-150. 22 N 1918.
- Holman, R. M., & Reed, E.** Notes on the phytoplankton and other algae of Douglas Lake and vicinity. *Michigan Acad. Sci. Ann. Rep.* **20**: 153, 154. 22 N 1918.
- Howe, I. A.** Some new stations for rare plants in northeastern Vermont. *Vermont Bot. & Bird Club Bull.* **4 & 5**: 15-19. Ap 1919.
- Hunt, N. R.** The "iceless refrigerator" as an inoculation chamber. *Phytopathology* **9**: 211, 212. *pl.* 12. 23 My 1919.
- Jennings, O. E.** *Potamogeton Vaseyi* in northeastern Ohio. *Ohio Jour. Sci.* **19**: 343. Ap 1919.
- Johnston, E. L.** The sand lily. *Am. Bot.* **25**: 52-54. My 1919.
- Kern, F. D.** North American rusts on *Cyperus* and *Eleocharis*. *Mycologia* **11**: 134-147. 7 Je 1919.  
*Puccinia abrepta*, *P. liberta* and *Uredo incomposita*, spp. nov., are described.

- Kitchin, P. C.** The relation between the structures of some coniferous woods and their penetration by preservatives. Michigan Acad. Sci. Ann. Rep. **20**: 203-220. *pl.* 11. 22 N 1918.
- Kotila, J. E.** Frost injury of potato tubers. Michigan Acad. Sci. Ann. Rep. **20**: 451-460. *pl.* 51, 52. 22 N 1918.
- Lee, H. A., & Merrill, E. D.** The susceptibility of a non-rutaceous host to citrus canker. Science II. **49**: 499, 500. 23 My 1919.
- Lyman, G. R.** The advisory board of American plant pathologists. Phytopathology **9**: 202-206. 23 My 1919.
- Macbride, J. F.** Certain North American Umbelliferae. Contr. Gray Herb. **56**: 28-35. 31 D 1918.
- Macbride, J. F.** Further new or otherwise interesting Liliaceae. Contr. Gray Herb. **56**: 1-20. 31 D 1918.  
Includes *Dasyllirion longistilum* sp. nov. and several new names and new combinations.
- Macbride, J. F.** Reclassified or new Compositae, chiefly North American Helenieae. Contr. Gray Herb. **56**: 36-50. 31 D 1918.  
Includes *Aster deserticola* sp. nov.
- Macbride, J. F.** A revision of *Mentzelia*, section *Trachyphytum*. Contr. Gray Herb. **56**: 24-28. 31 D 1919.
- Macbride, J. F.** A revision of *Mirabilis*, subgenus *Hesperonia*. Contr. Gray Herb. **56**: 20-24. 31 D 1918.
- Macbride, J. F.** Various American spermatophytes, new or transferred. Contr. Gray Herb. **56**: 50-61. 31 D 1918.  
*Guatteria boyacana*, *Duguetia vallicola*, *Machaerium Whitfordii*, *Cryptantha echinosepala*, *C. quentinensis*, and *Plantago Parishii*, spp. nov., are described.
- MacCaughey, V.** The mangrove. Am. Bot. **25**: 42-46. My 1919.
- MacDougal, D. T., Richards, H. M., & Spoehr, H. A.** Basis of succulence in plants. Bot. Gaz. **67**: 405-416. 19 May 1919.
- Makemson, W. K.** The leaf mold of tomatoes, caused by *Cladosporium fulvum* Cke. Michigan Acad. Sci. Ann. Rep. **20**: 311-348. *pl.* 23-37. 22 N 1918.
- Maxon, W. R.** A new *Cheilanthes* from Mexico. Proc. Biol. Soc. Washington **32**: 111, 112. 21 My 1919.  
*Cheilanthes castanea*.
- McCall, A. G., Norton, J. B. S., & Richards, P. E.** Abnormal stem growth of soybeans in sand cultures with Shive's three-salt solution. Soil Sci. **6**: 479-484. *pl.* 1, 2. D 1918.

- Millspaugh, C. F., & Sherff, E. E.** Revision of the North American species of *Xanthium*. Field Mus. Nat. Hist. Publ. Bot. **4**: 9-49. *pl.* 7-13. Ap 1919.  
Includes descriptions of 4 new species.
- Murrill, W. A.** Illustrations of fungi—XXX. Mycologia **11**: 101-103. *pl.* 6. 7 Je 1919.  
*Ganoderma Tsugae*, *G. sessile*, *Inonotus dryophilus* and *Tyromyces Spraguei* are illustrated in color.
- Nelson, J. C.** The gender of *Rumex*. Am. Bot. **25**: 55, 56. My 1919.
- Nelson, J. C.** Species east and west. Am. Bot. **25**: 70, 71. My 1919.
- Newcombe, F. C.** Behavior of plants in unventilated chambers. Michigan Acad. Sci. Ann. Rep. **20**: 145, 146. 22 N 1918.
- O[live], E. W.** Key to some of the principal families of flowering plants. Brooklyn Bot. Gard. Leaflets 7: [1-4] 21 My 1919.
- Osterhout, W. J. V.** Antagonism between alkaloids and salts in relation to permeability. Jour. Gen. Physiol. **1**: 515-519. *f.* 1-3. 20 My 1919.
- Pengelly, M.** Demonstration of methods for the study of stomatal action. Michigan Acad. Sci. Ann. Rep. **20**: 154. 22 N 1918.
- Pennell, F. W.** Notes on plants of the southern United States—V. Bull. Torrey Club **46**: 183-187. 23 My 1919.  
Includes *Acerates hirtella* sp. nov.
- Pollock, J. B.** Blue-green algae as agents in the deposition of marl in Michigan lakes. Michigan Acad. Sci. Ann. Rep. **20**: 247-260. *pl.* 16, 17. 22 N 1918.
- Pollock, J. B.** The longevity in the soil of the *Sclerotinia* causing the brown rot of stone fruits. Michigan Acad. Sci. Ann. Rep. **20**: 279, 280. 22 N 1918.
- Seeley, D. A.** The length of the growing season in Michigan. Michigan Acad. Sci. Ann. Rep. **20**: 223-232. *f.* 22-25. 22 N 1918.
- Shreve, F.** The establishment of desert perennials. Jour. Ecology **5**: 210-216. 3 Ja 1918.
- Shufeldt, R. W.** Phytophotography or the science of photographing flowers. Am. Forestry **25**: 1069-1074. *f.* 1-8. My 1919.
- Soth, B. H.** The arctic gentian. Am. Bot. **25**: 41. My 1919. [Illustr.]

- Stewart, E. G.** Mucilage or slime formation in the cacti. Bull. Torrey Club **46**: 157-166. *pl.* 8. 23 My 1919.
- Swingle, W. T.** *Merrillia*, a new rutaceous genus of the tribe Citreae from the Malay Peninsula. Philip. Jour. Sci. **13**: (Bot.) 335-343. *pl.* 5, 6. N 1918.
- Tanner, F. W.** Bacteriology and mycology of foods. i-vi+1-592. *pl.* 1-10 + *f.* 1-85. New York. 1919.
- Van Fleet, W.** New pillar rose. Jour. Heredity **10**: 136-138. *f.* 18, 19. 25 Ap 1919.  
*Rosa soulieana* × *R. setigera*.
- Van Pelt, W.** Onion diseases found in Ohio. Ohio Agr. Exp. Sta. Month. Bull. **4**: 70-76. *f.* 1-6. Mr 1919.
- Wakeman, N. A.** Pigments of flowering plants. Trans. Wisconsin Acad. Sci. **19**: 767-906. 1918.
- Waterman, W. G.** Ecology of the pine forest relic at Interlochen, Michigan. Michigan Acad. Sci. Ann. Rep. **20**: 241-244. *f.* 26. 22 N 1918.
- Watkins, S. L.** The western *Azalea*. Am. Bot. **25**: 51, 52. My 1919.
- Weatherby, C. A.** Further notes on *Impatiens biflora*. Rhodora **21**: 98-100. *f.* 1-6. My 1919.
- Weatherby, C. A.** An omission in the preliminary list of New England Ranunculaceae. Rhodora **21**: 104. 21 My 1919.
- Weatherby, C. A.** Long Pond. Rhodora **21**: 73-76. 9 My 1919.
- Weaver, J. E.** The quadrat method in teaching ecology. Plant World **21**: 267-283. *f.* 1-7. N 1918.
- Westgate, J. M.** Report of the Hawaii Agricultural Experiment Station, 1918. 1-55. *pl.* 1-11. Washington. 10 Ap 1919.
- Wheeler, L. A.** Additions to West River Valley flora. Vermont Bot. & Bird Club Bull. **4 & 5**: 8. Ap 1919.
- Whetzel, H. H.** Cooperation among plant pathologists. Cornell Countryman **16**: [1-3] F 1919.
- Whetzel, H. H.** George Francis Atkinson. Bot. Gaz. **67**: 366-368. 18 Ap 1919. [Portrait.]
- Williams, E. F.** George Golding Kennedy. Rhodora **21**: 25-35. 25 Mr 1919. [Portrait.]



- Wolkoff, M. I.** Effect of ammonium sulfate in nutrient solution on the growth of soybeans in sand cultures. New Jersey Agr. Exp. Sta. Ann. Report **38**: 416-419. 1917.
- Woodcock, E. F.** Structure of mature seed of *Eriogonum microthecum*. Michigan Acad. Sci. Ann. Rep. **20**: 233-236. *pl.* 13. 22 N 1918.
- Woodward, R. W.** Two *Festuca* varieties. *Rhodora* **21**: 72. 14 Ap 1919.
- Yates, H. S.** Some recently collected Philippine fungi—II. Philip. Jour. Sci. **13**: (Bot.) 361-385. N 1918.  
Forty-one new species in various genera are described.
- Youngken, H. W.** *Ballota hirsuta*, a recent adulterant for *Marrubium vulgare*. Am. Jour. Pharmacy **91**: 147-156. *f.* 1-9. Mr 1919.
- Zavitz, C. A., & Squirrell, W. J.** Hay and pasture crops, grasses, clovers, etc. Ontario Dept. Agr. Bull. 269: 1-55. F 1919.  
[Illust.]
- Zeller, S. M., & Dodge, C. W.** *Arcangeliella*, *Gymnomycetes*, and *Macowanites* in North America. Ann. Missouri Bot. Gard. **6**: 49-59. *f.* 1-3. F 1919.  
Includes *Arcangeliella caudata*, *Gymnomycetes Gardneri* and *Macowanites echinosporus*, spp. nov.